

In the Claims:

Listing of all claims:

1 - 45 Cancelled

1 46. (New) A method of controlling a welding
2 system comprising:
3 sensing a first signal indicative of a first
4 magnitude of a user-set welding parameter from a selector
5 located on a control panel of a source of power;
6 defining a range of magnitudes about the first
7 magnitude;
8 sensing a second signal indicative of a second
9 magnitude within the range of magnitudes from a remote
10 selector located remotely from the source of power; and
11 controlling a system output to have the parameter
12 have the second magnitude.

1 47. (New) The method of claim 46 wherein sensing
2 the second signal includes sensing a second selector located on a
3 welding torch.

1 48. (New) The method of claim 46 wherein the
2 range is centered about the first magnitude.

1 49. (New) A method of controlling a welding
2 system comprising;
3 sensing a first user selected magnitude of a
4 welding parameter from a selector located on a control
5 panel;
6 defining a range of magnitudes about the first
7 magnitude;

8 sensing a second signal indicative of a second
9 magnitude within the range of magnitudes from a remote
10 selector located; and
11 controlling the system to operate responsive to
12 the second user selected magnitude.

1 50. (New) A controller for a welding system
2 comprising:
3 means for sensing a first magnitude of a user
4 selected parameter from a selector located on a control
5 panel of a source of power;
6 means for defining a range of magnitudes about the
7 first magnitude;
8 means for sensing a second magnitude within the
9 range of magnitudes from a remote selector located of a user
10 selected parameter from a remote selector located remotely
11 from the source of power; and
12 means for controlling the system responsive to the
13 first magnitude and the second magnitude.

1 51. (New) The controller of claim 50 wherein the
2 remote selector is located on a welding torch.

1 52. (New) A welding system comprising:
2 power means for providing welding power to a weld;
3 a first selector means for receiving a user
4 selected magnitude for a welding parameter, located on a
5 control panel, and for providing first output indicative of
6 the first magnitude;
7 means for defining a range of magnitudes about the
8 first magnitude;
9 a second selector means for receiving a second
10 user selected magnitude within the range of magnitudes for
11 the welding parameter, located remotely from the power mean,

12 and for providing a second output indicative of the second
13 magnitude; and
14 a controller means for controlling the system
15 responsive to the second output.

1 53. (New) The apparatus of claim 52 wherein the
2 second selector means is located on a welding torch.

1 54. (New) The apparatus of claim 53 wherein the
2 control panel is on the power means.

1 55. (New) A welding system, comprising:
2 a first selector, located on a control panel of a
3 source of power, and having a user output indicative of a
4 first magnitude of a user-set welding parameter;
5 a second selector, located remote from the control
6 panel, and having a second user output indicative of a
7 second magnitude of the user-set welding parameter, wherein
8 the second magnitude is in a range about the first
9 magnitude;
10 a controller, connected to and responsive to the
11 second magnitude; and
12 a power supply, connected to and responsive to the
13 controller.

1 56. (New) The system of claim 55 wherein the
2 second selector is located on a welding torch.

1 57. (New) The system of claim 55 wherein the
2 range is centered about the first magnitude.
3

1 58. (New) A controller for a welding system
2 comprising:

3 a sensor connected to a selector located on a
4 control panel of a source of power, and having a first
5 magnitude output of a user selected parameter;
6 a second selector, located remote from the
7 control panel, and having a second user output indicative
8 of a second magnitude of the user-set welding parameter,
9 wherein the second magnitude is in a range about the first
10 magnitude; and
11 an output magnitude controller, responsive to
12 the second magnitude.

1 59. (New) The controller of claim 58 wherein the
2 remote selector is located on a welding torch.

1 60. (New) A welding system comprising:
2 a power source, disposed to provide welding
3 power to a weld;
4 a first user selector, located on a control
5 panel, and providing a first output indicative of a first
6 magnitude of a welding parameter;
7 a second user selector, located remotely from
8 the power source, and providing a second output indicative
9 of a second magnitude of the welding parameter, wherein
10 the second magnitude is in a range about the first
11 magnitude; and
12 a controller, connected to and responsive to the
13 second magnitude.

1 61. (New) The apparatus of claim 60 wherein the
2 second selector is located on a welding torch.

1 62. (New) The apparatus of claim 61 wherein the
2 control panel is on the power source.